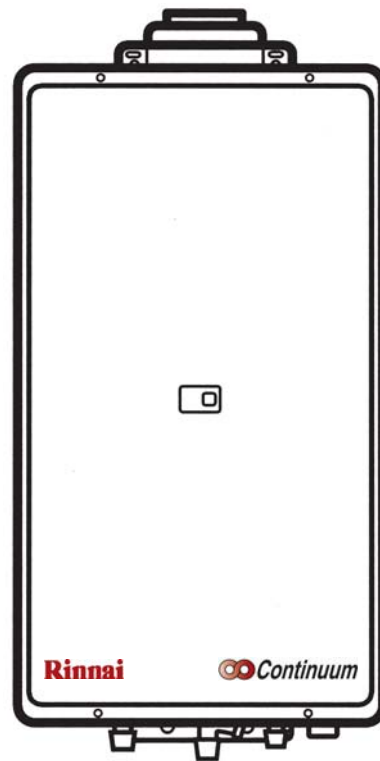




How to use your New Continuous Flow Water Heater

Model 2402 (indoor unit)



Rinnai

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.



S P E C I F I C A T I O N S

Type of appliance	Temperature controlled continuous flow gas hot water system
Operation	With / without remote controls, mounted in kitchen, bathroom, etc.
Exhaust system	Direct Vent - Forced combustion
Rinnai model number	REU-2402FFU-US
Maximum/Minimum gas rate (Input BTU's)	180,000 BTU's - 19,000 BTU's Natural Gas 175,000 BTU's - 20,000 BTU's Propane Gas
Hot water capacity, (50°F rise)	0.6 to 6.5 GPM
Setpoint Temperatures (without remote)	108, 120, 130, 140, 150, 160, 170, or 180°F (Factory setting - 120°F)
Temperature range with remote Keypads connected	MC controller : 96 - 140°F BC and BSC controller : 96 - 120°F
Approved gas type	Natural or Propane - Ensure unit matches gas type it's being installed on.
Installation	Indoor Only
Dimensions	Height 26 3/4" Width 14 9/16" Depth 7 7/8"
Weight	55 Lbs.
Efficiency rating	82%
Noise level	49 dB (A)
Connections	Gas supply 3/4" MNPT Cold water inlet 3/4" MNPT Hot water outlet 3/4" MNPT
Ignition system	Direct electronic ignition
Electrical consumption	Normal 92 watts Standby 8 watts Anti-frost protection 90 watts
Water temperature control	Simulation feedforward and feedback.
Water flow control	Water flow sensor and automatic electro-mechanical water flow control device
Minimum water supply pressure	40 PSI (Rinnai recommends 60-80 PSI for maximum performance)
Maximum water supply pressure	150 PSI



S P E C I F I C A T I O N S

Safety devices	Appliance - AC 120 Volts - 60Hz. Remote control DC 12 Volts (Digital)	
	Flame failure - Flame rod	
	Boiling protection - 203°F	
	Remaining flame (OHS) 194°F bi-metal switch	
	Thermal fuse 279°F	
	Automatic frost protection - Bi metal sensor & anti-frost heaters	
	Combustion fan rpm check - Integrated circuit	
	Over current - Glass fuse (3 amp)	
	If remote fails or becomes disconnected unit defaults to 100°F with water flowing, this is an anti-scald feature.	
Remote control	MC-45-3 US	Main control Kitchen / Laundry
	BC-45-3 US	Bathroom control
	BSC-45-3 US	Second bathroom control
Remote control cable	Non-polarized two core cable	
Clearances from combustibles	Top of heater	6"
	Front of heater	6"
	Sides of heater	2"
	Back of heater	0"
	Floor	12"
Minimum and Maximum gas supply pressure	Natural Gas : *Minimum 6" W. C. (NAT.) **Maximum 10.5" W. C.	Propane Gas: *Minimum 10" W. C. (LPG) **Maximum 14" W. C.
Manifold Gas Pressure	Natural Gas 3.9" W. C. high fire LPG: 5.1" W. C. high fire	0.31" W. C. low fire 0.43" W. C. low fire
Warranty	Residential: Ten years heat exchanger / five years parts (see unit's warranty for details) Commercial or Space Heating: Three years heat exchanger / three years parts	
Minimum Wall Thickness	4"	
Maximum Wall Thickness	20"	

*Minimum input pressure is for the purpose of input adjustments.

**Do not exceed maximum pressure.



WARRANTY

Rinnai warrants the  **Continuum** continuous Hot Water Heater Model 2402, including any parts and components thereof, to be free from any defects in materials and workmanship for the period specified below, subject to the terms specified in this warranty. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This Warranty shall apply to the Continuum Continuous Hot Water Heater as follows:

CONDITION AND EXCEPTIONS

<u>Item</u>	<u>Type of Failure Covered</u>	<u>Domestic Use Period of Coverage</u>	<u>Commercial or Space Heat Period of Coverage</u>
Heat Exchanger	Defective Materials or Workmanship	10 Years from Date of Purchase	3 Years from Date of Purchase
All other parts and components	Defective Materials or Workmanship	5 Years from Date of Purchase	3 Years from Date of Purchase

In the event of a malfunction, operational difficulty or failure of the product, or any part or any component thereof, during the warranty term, resulting from defects in materials or workmanship, Rinnai will remedy the malfunction, operational difficulty, or failure without charge to the owner of the water heater. The remedy will consist of repair or replacement of the product at the option of Rinnai.

Rinnai will only provide those remedies listed above. The owner shall be responsible for all other costs, including but not limited to shipping and delivery charges, labor associated with the removal and reinstallation of the product or its components, and any other incidental costs such as other materials or permits that may be required for installation.

This warranty DOES NOT cover any failures, operational difficulty or malfunction due to accident, abuse, misuse, alteration, Acts of God, misapplications, improper installation or improper maintenance or service, lime damage, or from any other cause other than defects in materials or workmanship. Warranty does not cover use as a pool or spa heater.

PROCEDURE FOR MAKING A CLAIM

In order to obtain the benefits of the warranty, contact your selling dealer or Rinnai at 800-621-9419 for the location of the servicing dealer nearest you.

Proof of Purchase is required to institute a claim under this warranty. This document does not constitute proof-of purchase.

LIMITATION ON IMPLIED WARRANTIES

Any implied warranties of merchantability and fitness applicable to the equipment arising under state law are limited in duration to the period of coverage provided by this limited warranty, unless the period provided by state law is less. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

DISCLAIMERS

Rinnai is not liable for any special, indirect or consequential damages, such as water damage, loss of use, inconvenience, damage to person or property, whether arising in contract or tort.

Rinnai does not authorize any person or company to assume for it any other obligation or liability in connection with the sale, application, engineering, installation, use, removal, return or replacement of its product, and no such representations are binding on Rinnai.

Please **DETACH** the enclosed warranty registration card, fill it out, and drop it in the mail. Receipt of this completed card by Rinnai will constitute proof-of purchase for your Rinnai Continuum 2402.



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OWNER'S INSTALLATION INFORMATION

This product must be installed by a Rinnai certified installer. Failure to have the product installed by a Rinnai certified installer may result in a voiding of the product's warranty.

This appliance must be installed in accordance with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1 and/or the CAN/CGA-B149, Installation Codes.

Install this product indoors, DO NOT install outdoors.

Do Not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been underwater.

Detailed instructions on the proper installation practices to follow for the installation of your new continuous hot water heater are included at the back of this manual.



For the Rinnai Certified Installer nearest you call:

1-800-621-9419.



FEATURES OF YOUR NEW CONTINUUM

-  The Continuum 2402 is one of the most advanced water heaters available. It supplies hot water continuously at the temperature preset in the unit or at the temperature set on the optional remote control(s). Remote controls are recommended for optimum performance.
-  The Continuum 2402 never runs out of hot water. While electricity, water and gas supplies are connected, hot water is available whenever the hot tap is open.
-  The gas burner lights automatically when the hot water tap is opened, and goes out when the tap is closed. Ignition is electronic, there is no pilot light. When the hot water tap is off, no gas is used. You save energy and money with the Continuum 2402.
-  The temperature of the outgoing hot water is constantly monitored by a built in sensor. If the temperature of the outgoing water rises to more than 6 degrees above the selected temperature (shown on the optional digital remote control) the gas burner will automatically go out. The gas burner will re-ignite once the outgoing hot water temperature falls below the selected temperature.
-  Built into the microprocessor of the Continuum 2402 is the ability to LIMIT THE MAXIMUM TEMPERATURE of the hot water supplied by the Continuum 2402. Without the connection of an optional remote control, the Continuum 2402 is preset to deliver 120 degree water.
-  With the optional remote the water temperature is adjustable from 96 to 140 with the main controller and from 96 to 120 with the bath controller. The water temperature can be preset at 108, 120, 130, or 140 by a certified Rinnai technician. If you require a temperature other than 120 or what the remotes will give you, ***please contact your Rinnai certified technician.***
-  Error messages are displayed on the optional remote controls, simplifying service calls.
-  The Continuum 2402 incorporates a device to prevent the temperature from varying when the water is off, then on again. It also incorporates a rapid response device for fast heating.
-  The sound (noise) level from the Continuum 2402 is very low.
-  The Continuum 2402 is a very compact power vented device. It saves valuable floor and wall space.

S A F E T Y

I S S U E S

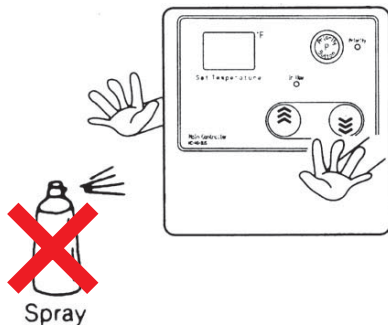
Always check water temperature by hand before entering the shower or bath. The temperature may have been changed.



The water temperature can only be adjusted between 96°F and 110°F when the hot water tap is open, and hot water is flowing.



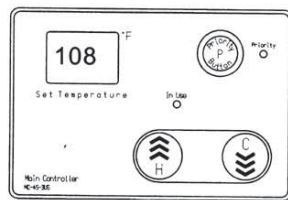
Do not clean Remote Controls with solvents. Use a soft damp cloth.



S A F E T Y

I S S U E S

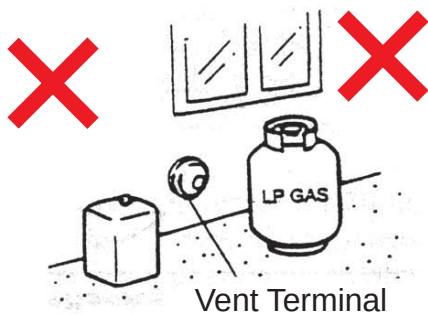
Depending on the weather conditions and the length of the pipe between the Continuum 2402 and the tap in use, there may be a variation between the temperatures displayed at the Remote Control and the temperature of the water at the tap.



The Continuum 2402 controls the water temperature automatically. To do this it sometimes needs to change the water flow accordingly. The water flow from the hot water tap may vary after the selected temperature at the Remote Control is altered. The water flow may also vary from summer to winter, as incoming water temperatures differ.



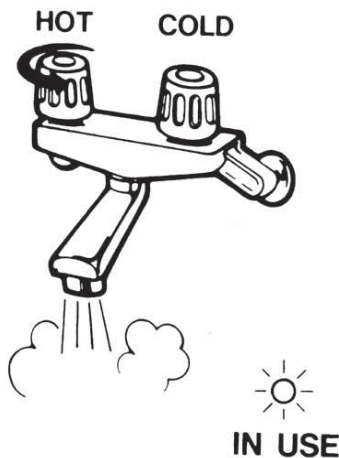
The vent/air intake should be positioned away from flammable materials, trees, shrubs, etc.



Do not connect vent to natural draft vents or fireplaces, this unit can only be used with an approved Rinnai/Ubbink vent kit and components. Do not vent unit into other rooms. Vent terminal must be outside.

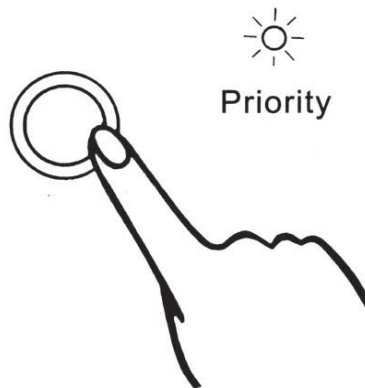
B A S I C O P E R A T I O N

1



To operate the Continuum 2402 simply turn any hot water tap on. This will automatically light the burner providing hot water at the preset temperature. If the optional remote controls have been installed, the green "IN USE" indicator will glow on all remote controls.

2



To take control of the Continuum 2402 all hot water taps must be closed. Press the "Priority button" on the Control you want to set the temperature with, and the yellow "Priority" indicator light will glow. This indicates that the Continuum 2402 is ready to supply hot water at the set temperature as soon as a tap is opened.

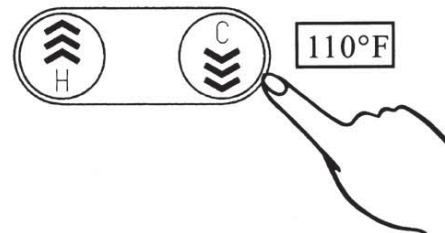
3

Adjusting Temperature

The temperature can only be adjusted on the Remote Control where the Priority indicator is glowing, and the same temperature will be displayed on all Controls.

4

Simply press the  or  button until the required temperature is displayed on the Digital Monitor.



TEMPERATURE CANNOT BE ADJUSTED EXCEPT BETWEEN 96°F AND 110°F WHEN ANY HOT WATER TAP IS OPEN.

NOTE



CHECK WATER TEMPERATURE BEFORE ENTERING SHOWER OR BATH.

Always test the water temperature in bath before a child gets in. This is best done by the parent placing their elbow in the water.

NOTE

A B O U T H O T W A T E R

Hot Water Is Dangerous, especially for the young and the elderly or the infirm. The Continuum 2402 allows you to precisely control the temperature of your hot water, ensuring safe hot water temperatures.



Water Temperatures over 125°F can cause severe burns instantly or death from scalds.

Hot Water can cause first degree burns with exposure for as little as:

- 3 seconds at 140 °F
- 20 seconds at 130 °F
- 8 minutes at 120 °F

Test the temperature of the water with your elbow before placing a child in the bath or shower.

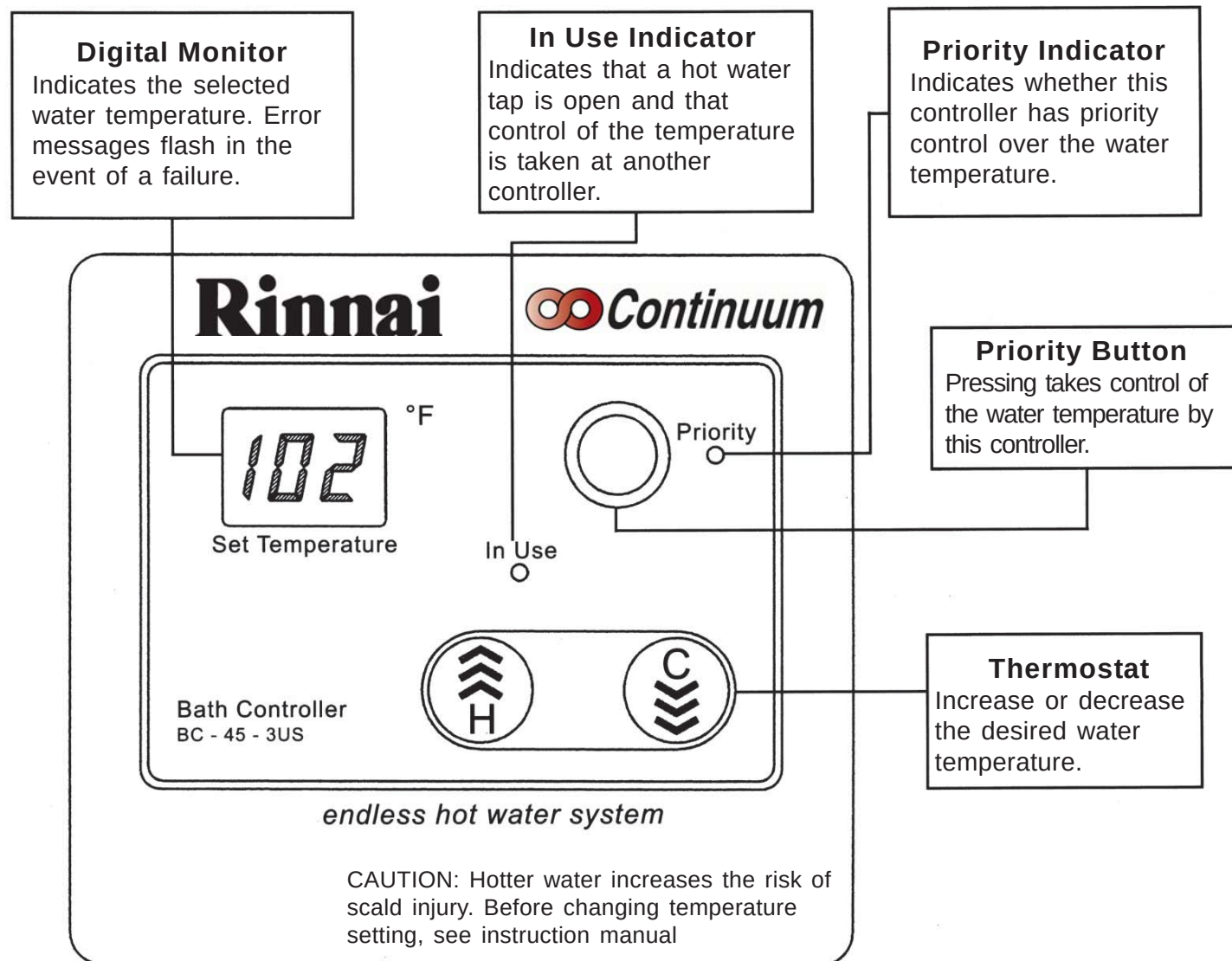
Do not leave a child or an infirm person in the bath unsupervised.

S c a l d s - F i r s t A i d

- 1) **Remove clothing;** Remove all wet clothing, quickly. Wet clothing retains the heat.
- 2) **Apply cold water for 30 minutes;** Immediately submerge the burnt area in cold water for 30 minutes to reduce the heat in the skin, preventing deeper burning. *Never use butter, oils or ointment to cover the burn.* They may retain the heat.
- 3) **Keep the scalded person warm;** Place a blanket around the person.
- 4) **Seek Medical Advice;** Call your medical advice hotline and describe the scald, follow their directions.



REMOTE CONTROL OPERATION



The Main Controller MC-45-3US is intended to be used in the kitchen, laundry room or utility area, the Bath Controller BC-45-3US and the Second Bath Controller BSC-45-3US are intended for installation in the bathroom.



ERROR MESSAGES

The Continuum 2402 has the ability to check its own operation continuously. If a fault occurs, an Error Message will flash on the Digital Monitor of the Remote Controls. This assists with diagnosing the fault, and may enable you to overcome a problem without a service call. Please quote the code displayed when inquiring about service.

NOTE: Failure to remedy faults may result in severe burns, scalds, and/or death.

Code Displayed	Fault	Remedy
10	Air Supply or Exhaust Blockage	Check that nothing is blocking the air intake or exhaust.
11	No Ignition	Check that the gas is turned on at the water heater, gas meter or cylinder.
12	Flame Failure Earthing Failure	Check that the gas is turned on at the water heater and gas meter. Check for obstructions in flue outlet.
14	Thermal Fuse	Service Call
16	Over Temperature Warning	Service Call
32	Outgoing Water Temperature Sensor Faulty	Service Call
33	Heat Exchanger Outgoing Water Temperature Sensor Faulty	Service Call
34	Combustion Air Temperature Sensor Faulty	Service Call
52	Mod. Solenoid Valve Answer Abnormal	Service Call
61	Combustion Fan Failure	Service Call
71	Solenoid Valve Driving Circuit Faulty	Service Call
72	Flame Sensing Device Faulty	Service Call
LC	Scale build-up in Heat Exchanger	Service Call



MAINTENANCE & SERVICE INFORMATION

Warning: Always turn off the electrical power supply, the manual gas valve and the manual water control valve whenever servicing the unit.



The Continuum 2402 should be checked by a Rinnai Certified Technician once a year. A Rinnai Certified Technician should perform any repairs that may be necessary.

The following items should be checked each inspection:

- 1) The area around the Continuum 2402 unit should be free from combustible materials such as cloth, vegetation and building materials. (see page 9)
- 2) Check burners for presence of foreign debris.
- 3) Remove and clean the inlet water filter.
- 4) Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- 5) Do not obstruct flow of combustion and ventilation air.

In the case of any fault or error message from the Continuum 2402, first turn all hot water taps off. Wait for 5 seconds. Turn the hot water tap back on. If this does not correct the fault or eliminate the error message from the remote control, press the priority button on and off twice to reset the system. If the error message still remains, call your Rinnai Authorized Service Representative or Rinnai at 800-621-9419.

Should overheating occur or the gas supply fail to shutoff, turn off the manual gas control valve to the appliance.



DO NOT ATTEMPT TO SERVICE YOUR Continuum 2402 YOURSELF.

Call a Rinnai Authorized Service Technician or call Rinnai at 800-621-9419.

MAINTENANCE & SERVICE INFORMATION

MAINTENANCE SUGGESTIONS

This water heater has been designed and constructed for a long performance life when installed and operated properly under normal conditions. Regular inspections, as outlined in this section, are strongly recommended as a means of keeping your heater operating efficiently.

1. Cleaning

The water heater must be cleaned annually. Keep the water heater clear of dust and debris especially in and around burner. Cleaning procedures for the Continuum are as follows:

- 1) Turn off and disconnect electrical power. Allow to cool for one hour.
- 2) Remove the Front Panel by removing screws. See parts breakdown on panels.
- 3) Use pressurized air to remove dust from around main burner.
- 4) Use soft dry cloth to wipe cabinet.

DO NOT DAMAGE OR DISTORT ANY PARTS OF HEATER.

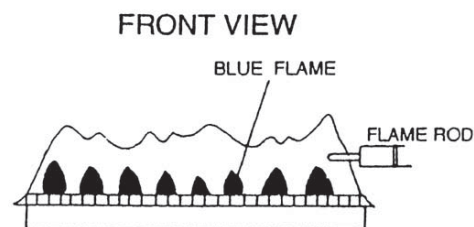
DO NOT USE WET CLOTH OR SPRAY CLEANERS ON BURNER.

2. Visual check of main burner flames.

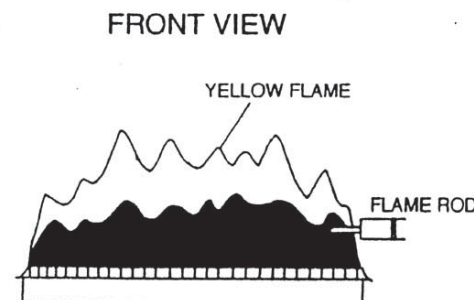
The burner must flame evenly over the entire surface when operating correctly. The flame must burn with a clear, blue, stable flame. See the parts breakdown of the burner for the location of view ports. Any and all parts removed for inspection or service must be replaced before operating the unit. The flame pattern should be as shown in the following Figures.

VISUAL CHECK

SATISFACTORY



UNSATISFACTORY



* VENT MAINTENANCE * VENT SYSTEM

Must be checked annually for blockage or deterioration. See vent installation instructions.

* MAINTENANCE- ELECTRIC MOTORS

Motors are permanently lubricated and need no lubrication. Keep fan and motor free of dust and dirt, clean annually.



TROUBLE SHOOTING AND COMMON QUESTIONS

Q - I don't have any hot water when I open the tap!

*A - Make sure there is gas and electricity to the Continuum 2402.
(the power is turned on and the gas is turned on)*

Q - When I was using the hot water, the water got cold!

A - If you adjusted the flow from the tap to lessen it, you may have gone below the minimum flow required. The Continuum 2402 requires .6 GPM to operate. If you mix the water with a tap and attempt to get a temperature well below the temperature being controlled by the unit, it may drop the flow below .6 GPM. Decrease the temperature supplied by the Continuum 2402 at the remote control or increase your total flow.

Q - White smoke comes out of the exhaust!

A - During colder weather when the exhaust temperature is hotter than the air, the exhaust fumes condense producing white steam.

Q - When I open a hot tap. I do not immediately get hot water!

A - Hot water must travel through your plumbing from the Continuum 2402 to the faucet. This can take from 2 to 10 or more seconds depending upon your plumbing system.

Q - After I turn off the hot water tap, the fan on the Continuum 2402 continues to run!

A - The fan is designed to be on for 65 seconds after the flow of water stops. This is to ensure constant water temperatures during rapid starting and stopping, as well as exhausting any residual gas flue products from the unit.

FOR YOUR SAFETY READ BEFORE OPERATING

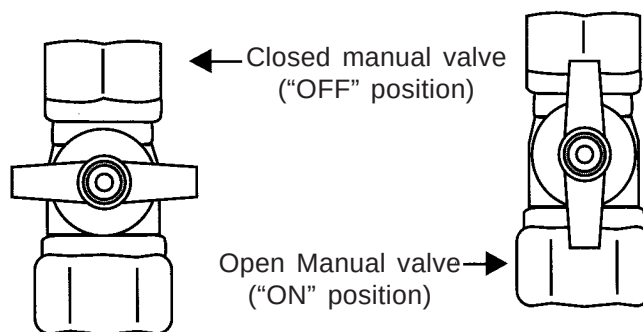
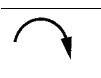
Warning: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance is equipped with a direct ignition device which automatically lights the burner. Do not try to light the burner by hand.
- B. BEFORE OPERATING: Smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electric switch, do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to operate remote control keypad. **Do not** use tools. Force or attempted repair may result in a fire or explosion. If the remote keypad doesn't work, call a qualified service technician.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

OPERATING INSTRUCTIONS

- 1) STOP! Read the safety information above before proceeding.
- 2) Set the thermostat to lowest setting.
- 3) Turn off all electric power to the appliance.
- 4) This appliance is equipped with a direct ignition device which automatically lights the burner. Do not try to light the burner by hand.
- 5) Turn the manual valve located at gas inlet of the appliance clockwise to "OFF".



- 6) Wait (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to next step.



FOR YOUR SAFETY READ BEFORE OPERATING

- 7) Turn the manual valve located at the gas inlet of appliance counterclockwise  to "ON".
- 8) Turn on all electric power to the appliance.
- 9) Set thermostat to desired setting.
- 10) If the appliance will not operate, Follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

To Turn Off Gas To Appliance

- 1) Set the thermostat to lowest setting.
- 2) Turn off all electric power to the appliance if service is to be performed.
- 3) Turn the manual valve at gas inlet of appliance clockwise  to "OFF"

CARE & LIME CONDITION WARNING

Care of Unit's Exterior:

Keep the exterior cabinet clean. Use a soft cloth and warm water when cleaning the cabinet. **Do Not** use volatile substances such as benzene and thinners, as they may ignite, or cause fading of the paint.

Lime Condition Warning Signal:

If you notice "LC" flashing on the remote key pad, this means the unit is beginning to lime up, and **MUST** be flushed. Contact a qualified Rinnai service technician to flush the appliance. Failure to flush the appliance when "LC" is flashing, will cause damage to the heat exchanger. Damage caused by lime build up is not covered by the unit's warranty.



Installer's Instructions

This section is for the Rinnai Certified Installer only. **If you are not certified you are not authorized to install this unit.** The warranty may be voided due to installation by a non-certified installer. For information on becoming a Rinnai Certified Installer, call

1-800-621-9419.

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INSTALLER'S INSTALLATION INSTRUCTIONS

-Warnings-

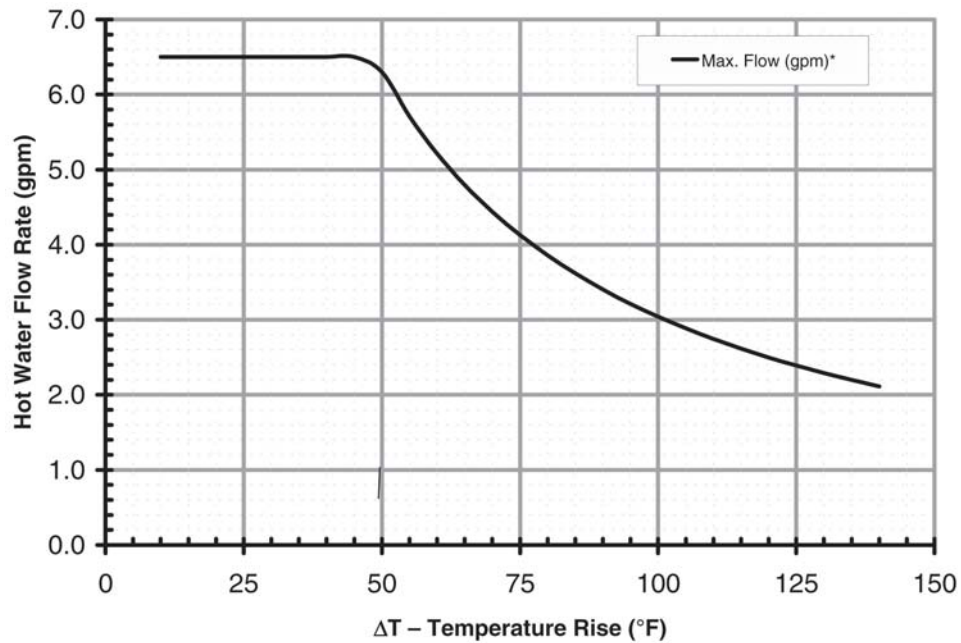
This manual must be followed exactly.

- 1) Read the safety issues completely before installing the Continuum 2402.
- 2) This water heater is suitable for water (potable) heating or space heating.
 - The piping connected to the Continuum 2402 must be approved for use in potable water systems.
 - Toxic chemicals such as those used for boiler water treatment are NOT to be introduced to the Continuum 2402.
 - The Continuum 2402, if it will be used as a potable water source, it must not be connected to a system that was previously used with a nonpotable water heating appliance.
- 3) The Continuum 2402 is not suitable for use as a spa heater.
- 4) The dip switches on the computer board have been preset at the factory and should not be readjusted without the express knowledge and involvement of Rinnai.
- 5) This unit is designed to be installed indoors using the proper vent piping to exhaust by-products of combustion to the outside environment. Contact your dealer or Rinnai for proper vent kits. **DO NOT** operate this unit without vent piping connected. Exhaust gasses must be expelled outside the home. All pipe joints shall be taped to help prevent leakage around joints. (Aluminum tape is recommended.)
- 6) Maintain proper space around the unit for proper servicing and operation. Minimum clearances from combustible materials are listed below.

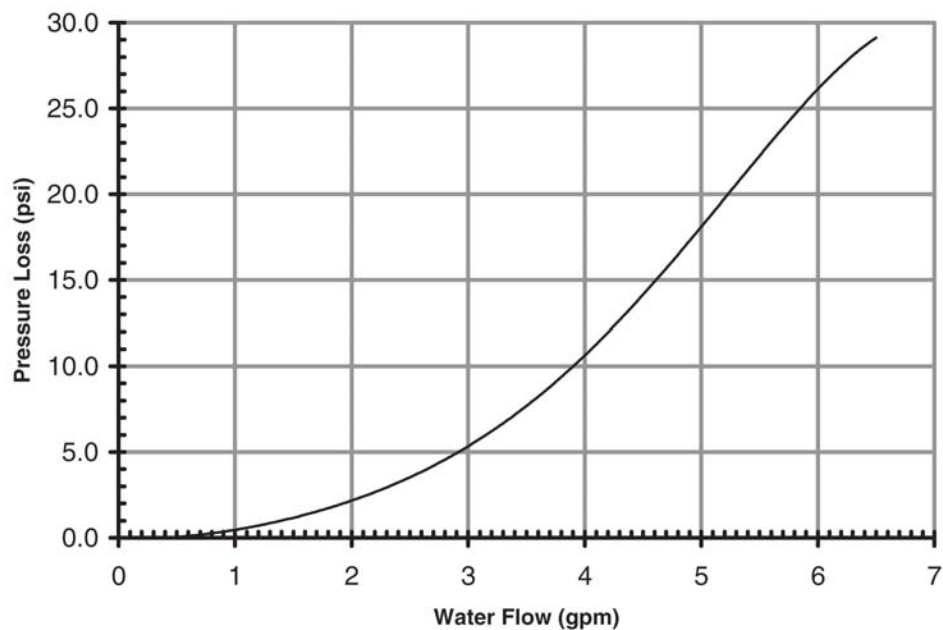
Top of Heater	6 inches
Back of Heater	0 inch
Front of Heater	6 inches
Sides of Heater	2 inches
Floor	12 inches

- 7) Installer must install a Pressure relief valve. Pipe pressure relief discharge to a drain or outside environment (see page 29).
- 8) The appliance should be located in an area where leakage of the unit or connections will not result in damage to the area adjacent to the appliance or to lower floors of the structure. When such locations cannot be avoided, it is recommended that a suitable drain pan, adequately drained, be installed under the appliance. The pan must not restrict combustion air flow.

INSTALLER'S INSTALLATION INSTRUCTIONS
CONTINUUM OUTLET FLOW DATA



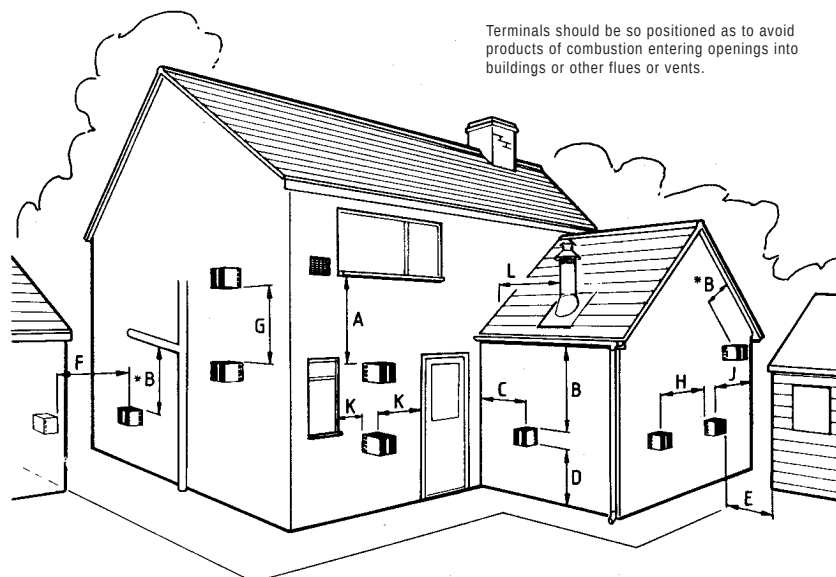
INSTALLER'S INSTALLATION INSTRUCTIONS
CONTINUUM PRESSURE DROP CURVE



INSTALLER'S INSTALLATION INSTRUCTIONS

Locating the vent terminal

RECOMMENDED VENT/AIR INTAKE TERMINAL POSITION

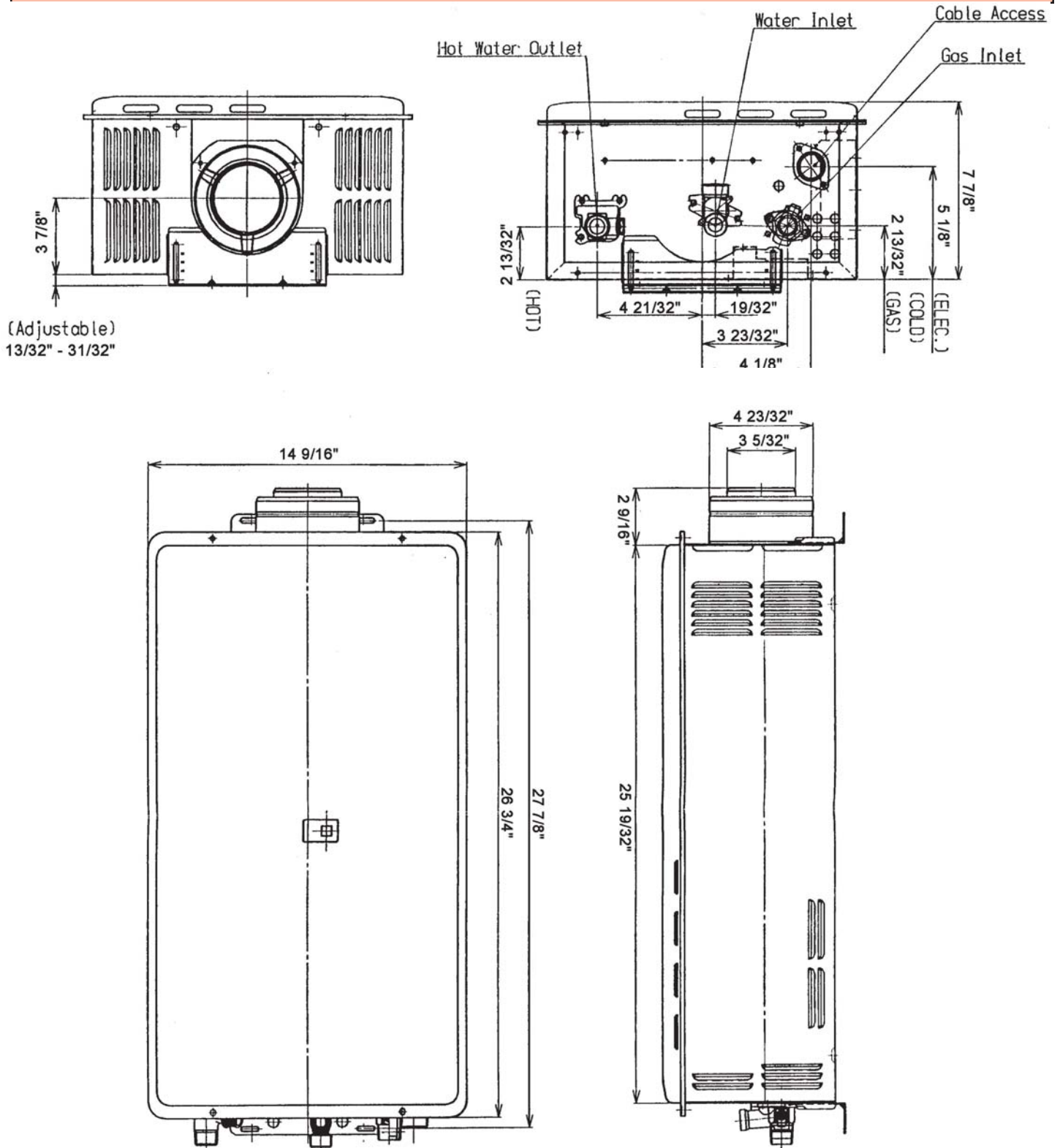


Vent/Air Intake Terminal positions - MINIMUM dimensions.

REF	DESCRIPTION	DISTANCE IN INCHES
A	Directly below an Opening, Air Brick or Window.	12
B	Below a Gutter, Sanitary Pipework or Eaves.	36 *
C	From any Internal Corner.	12
D	Above Ground.	12
E	From an opposing wall or structure facing the Terminal.	24
F	From a Terminal facing a Terminal.	48
G	Vertically between Two Terminals on the same wall.	60
H	Horizontally between Two Terminals on the same wall.	12
J	From any External Corner.	12
K	Horizontally from any Opening, Air Brick, Window or Door.	12
L	Vertical Flue from wall (Flat or Pitched Roof).	24

INSTALLER'S INSTALLATION INSTRUCTIONS

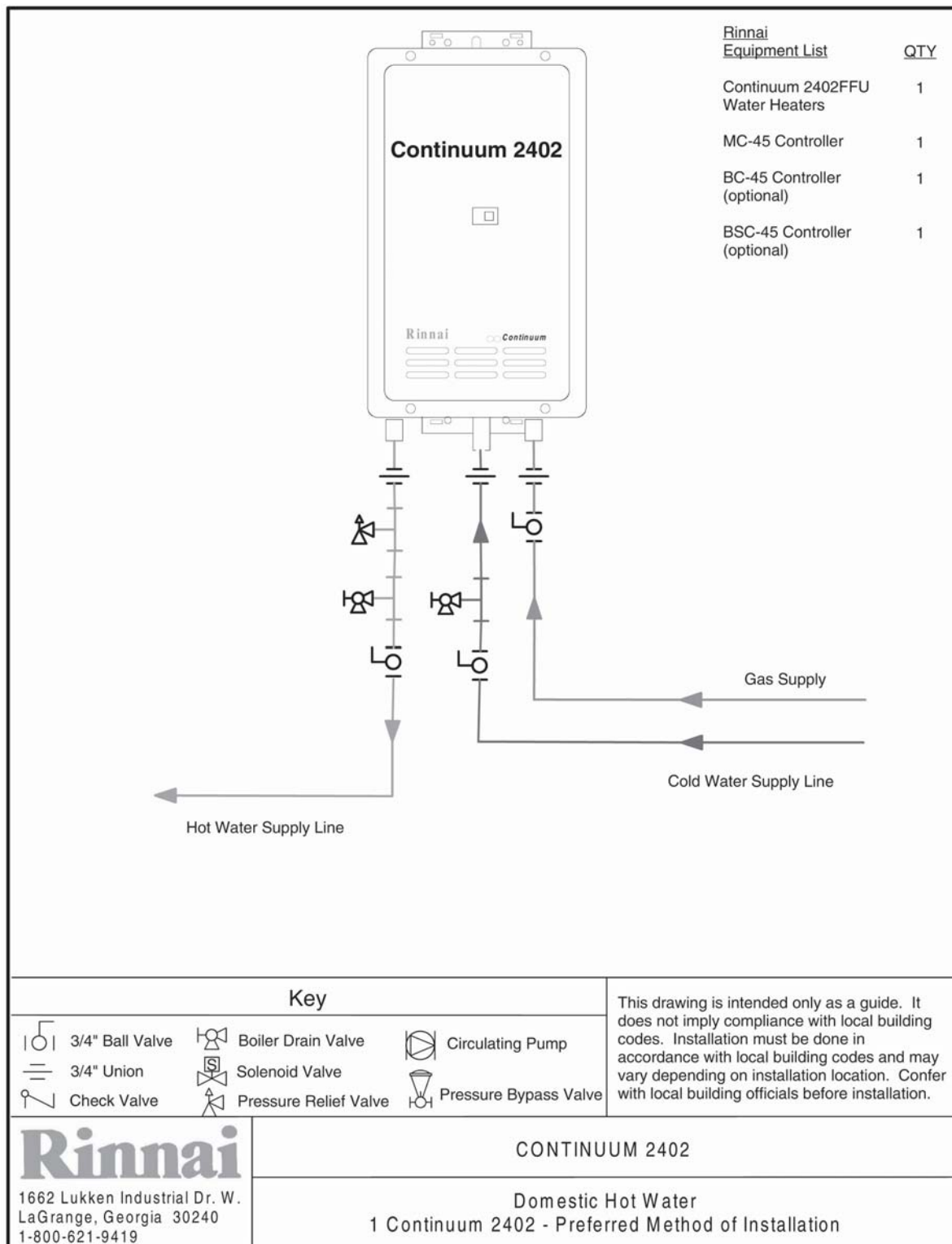
Dimensions





INSTALLER'S INSTALLATION INSTRUCTIONS

RECOMMENDED PIPING FOR INSTALLATION





INSTALLER'S INSTALLATION INSTRUCTIONS

Venting

The maximum allowable “Equivalent Length (D)” of vent pipe for the 2402 water heater is 41 feet (as determined using the formula below). If “D” is greater than 41, the vent/air intake piping is too long or there are too many elbows, redesign the vent pipe run.

$$D = L + (B_{90} \times 6) + (B_{45} \times 1.5)$$

D = Total Equivalent Length of vent system.

L = Length of vent/air intake in feet.

B₉₀ = Number of 90° elbows.

B₄₅ = Number of 45° elbows.

To help prevent condensation in the vent/air intake piping, the combustion fan has two dip switch settings. Dip switch number 2 is shipped from the factory set to the “OFF” position; this is suitable for the maximum vent/air intake length.

Depending upon the vent/air intake length, Dip switch No. 2 may need to be adjusted to compensate fan speed. Read the following instructions, to determine which position this switch should be placed in.

When the Equivalent Length of vent pipe, D, is more than 22 feet, leave dip switch number 2 in the “OFF” position.

When the Equivalent Length of vent pipe, D, is 22 feet or less, dip switch number 2 must be moved to the “ON” position.

Dip switch # 2 is located in the top row of dip switches, 1 through 8 on the PC board. See the diagram below to identify the proper switch. If you do not understand the following information, contact Rinnai at 1-(800)621-9419 for assistance.

Do not alter dip switch number 2 before using formula, to determine the proper setting.

Example #1:

You have 6 feet of vent pipe, and two 90° elbows.

$$D = 6 + (2 \times 6) + (0 \times 1.5)$$

D = 18 Dip switch number 2 should be “ON”

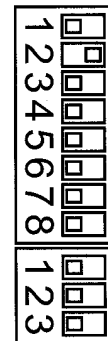
Example #2:

You have 15 foot of vent pipe, one 90° elbow and two 45° elbows.

$$D = 15 + (1 \times 6) + (2 \times 1.5)$$

D = 24 Dip switch number 2 should be “OFF”

OFF / ON



← Vent/air intake piping length

Warning: All other dip switches with the exception of dip switch No.2, shown in the diagram below, **MUST NOT** be altered without the written consent of Rinnai. Unauthorized adjustments can cause property damage, personal injury, scalding, or death.



INSTALLER'S INSTALLATION INSTRUCTIONS

Venting

Vent/Air Intake for Continuum 2402 Hot Water Systems

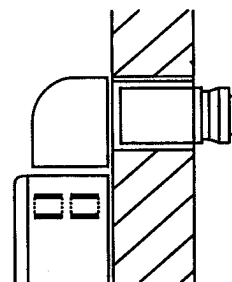
The only vent/air intake system approved for use with this appliance by CSA is the Rinnai/Ubbink vent system and components. The vent system must vent directly to the outside of a building and use outside air for combustion as indicated in the diagrams below.

Horizontal Direct Vent Installation

The Continuum 2402 may be installed on the internal surface of an external wall using a standard Rinnai/Ubbink vent system kit. A typical installation is shown in the diagram to the right. The standard Rinnai/Ubbink vent system kit consists of:

- One 90° elbow
- One vent termination kit
- One discharge adaptor

Horizontal Direct



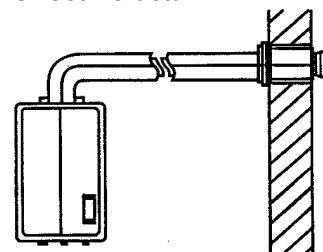
Horizontal Extension Installation

The Continuum 2402 may also be installed on an internal wall which is near to an external wall. This can be done using a combination of extension tube(s), 90° or 45° elbow(s).

The maximum "EQUIVALENT LENGTH" of the vent/air intake system is 41 feet, as calculated using the formula on page 29 (i.e. an installation with 23 feet of extension tubes, and three 90° elbows). The maximum vertical height of the vent/air intake system shall not exceed 5 feet unless an approved condensation collar is used.

Horizontal Extension

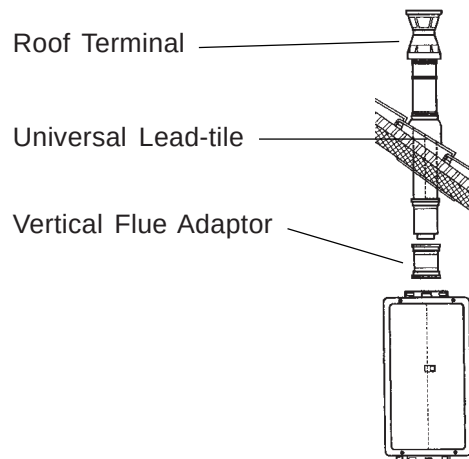
Up to 23 feet and 3 bends horizontal
Up to 5 feet vertical



Vertical Direct Vent Installation

The Continuum 2402 can also be installed in roof spaces or areas where vertical venting is required. Venting vertically can be achieved using a combination of extension tube(s), a vertical flue adaptor, a roof terminal, and a universal lead-tile. The maximum "EQUIVALENT LENGTH" of the vent/air intake system is 41 feet, as calculated using the formula on page 29. However, the maximum HEIGHT of the vent system is limited to 21 feet. The maximum vertical height of the vent/air intake system shall not exceed 5 feet unless an approved condensation collar is used.

Vertical Direct





INSTALLER'S INSTALLATION INSTRUCTIONS

Gas Pipe Sizing Chart

Capacity Table for Natural Gas

cubic feet / hour

(table assumes .3 inch pressure drop, specific gravity of .60)

Nominal Iron Pipe Size Inches	Length of Pipe in Feet													
	10	20	30	40	50	60	70	80	90	100	125	150	175	200
3/4	278	190	152	130	115	105	96	90	84	79	72	64	59	55
1	520	350	285	245	215	195	180	170	160	150	130	120	110	100
1-1/4	1050	730	590	500	440	400	370	350	320	305	275	250	225	210
1-1/2	1600	1100	890	760	670	610	560	530	490	460	410	380	350	320

After determining the length of pipe required select the pipe size that will supply the cubic feet per hour of gas required for the input rating of the Continuum 2402.

The formula for figuring the cubic feet per hour required is:

$$CFH = \frac{\text{Gas Input of Continuum 2402(BTU/HR)}}{\text{Heating Value of Gas(BTU/FT}^3\text{)}}$$

*Gas input requirement is on the water heater data plate

*The heating value of the gas can be obtained from the local Natural Gas Utility

Capacity Table for LP Gas

BTUH of undiluted liquified petroleum gases

(table assumes 11 inches of water column pressure at the inlet, .5 inch drop)

Nominal Iron Pipe Size Inches	Length of Pipe in Feet											
	10	20	30	40	50	60	70	80	90	100	125	150
1/2	275	189	152	129								
3/4	567	393	315	267	237	217	196	185	173	162	146	
1	1071	732	590	504	448	409	378	346	322	307	275	252
1-1/4	2205	1496	1212	1039	913	834	771	724	677	630	567	511



INSTALLER'S INSTALLATION INSTRUCTIONS

Gas Piping Notes

- 1) A manual gas control valve must be placed upon the gas inlet connection to the Continuum 2402 before it is connected to the gas line. A union can be used on the connection of the Continuum for the future servicing or disconnection of the unit.
- 2) Check the type of gas and the gas inlet pressure before connecting the Continuum 2402. If the Continuum 2402 is not of the gas type that the building is supplied with, DO NOT connect the water heater. Contact the dealer for the proper unit to match the gas type.
- 3) Minimum and Maximum Gas pressures are listed below:
 - * Minimum value is for input adjustment

Natural Gas: Minimum 7" WC
 Maximum 10.5" WC

Propane Gas: Minimum 10"WC
 Maximum 14" WC

WARNING: Conversion of this unit from natural gas to propane or propane to natural gas CANNOT be done in the field.

- 4) After completion of gas pipe connections, all joints including the heater must be checked for gas-tightness by means of leak detector solution, soap and water, or an equivalent nonflammable solution, as applicable. **Caution:** Since some leak test solutions, including soap and water, may cause corrosion or stress cracking, the piping must be rinsed with water after testing, unless it has been determined that the leak solution is non-corrosive.
- 5) The Continuum 2402 must be leak tested before it is placed into operation.
- 6) The Continuum 2402 and its individual shut-off valve must be disconnected from the gas supply piping system when pressure testing of the gas supply piping system at test pressures equal to or greater than 1/2 psi.
- 7) Always use approved connectors to connect the unit to the gas line. Always purge the gas line of any debris before connection to the water heater.
- 8) The Continuum 2402 must be isolated from the gas supply piping system by closing it's individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures less than 1/2 psi.
- 9) The Continuum 2402's Installation location must provide adequate Combustion and Ventilation airflow.



INSTALLER'S INSTALLATION INSTRUCTIONS

Water Piping Notes

- 1) A manual water control valve must be placed upon the water inlet connection to the Continuum 2402 before it is connected to the water line. Unions may be used on both the hot/cold water supply lines, for the future servicing or disconnection of the unit.
- 2) All soldering materials and piping must be compatible with potable water.
- 3) Purge the water line to remove from it all debris and air. Debris will damage the Continuum 2402.
- 4) There is a wire mesh strainer on the Continuum 2402's inlet to discourage the introduction of debris to the unit. It will need to be cleaned periodically.
DO NOT operate unit without filter in place.

WARNING: DO NOT reverse the inlet and outlet (cold and hot water) connections on the unit. This would cause the Continuum 2402 to operate dangerously or not at all.

INSTALLER'S INSTALLATION INSTRUCTIONS

Pressure Relief Valve

- 1) ANSI code calls for the addition of an approved pressure relief valve to all water heating systems.
- 2) The pressure relief valve must meet the following criteria: The relief valve must comply with the standard for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems ANSI Z21. 22. This relief valve must be rated at 150 PSI of pressure.
- 3) The relief valve should be added to the hot water outlet line per manufacturer's instructions. DO NOT place any other type valve or shut off device between the relief valve and the hot water heater.
- 4) The discharge from the pressure relief valve should be piped to the ground or into a drain system to prevent exposure or possible burn hazards to humans or other plant or animal life. Water discharged from the relief valve could cause severe burns instantly, scalds and/or death.
- 5) Do not plug the relief valve and do not install any reducing fittings or other restrictions in the relief line. The relief line should allow for complete drainage of the valve and the line.
- 6) Pressure relief valve must be manually operated once a year to check for correct operation.
- 7) Should overheating occur or the gas supply fail to shut off, turn off the manual gas valve on the Continuum 2402.

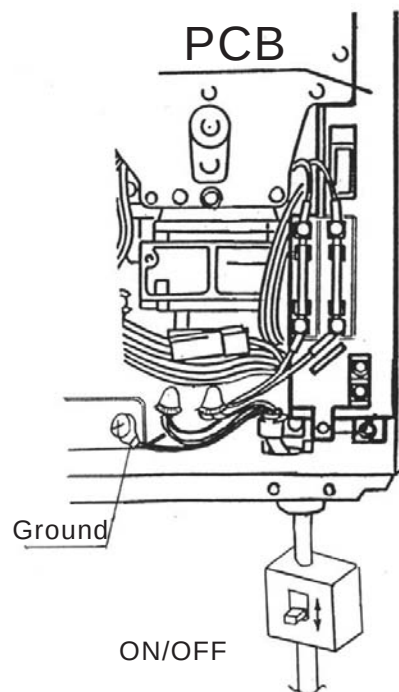


INSTALLER'S INSTALLATION INSTRUCTIONS
Electrical Connection Notes

WARNING: The Continuum 2402 must be electrically grounded in accordance with local codes or in the absence of local codes with the most recent edition of the National Electrical Code, ANSI/NFPA 70. In Canada, all electrical wiring to the Continuum 2424 should be in accordance with local codes and the Canadian Electrical Code, CSA C22.1 Part1. Do not rely on the gas or water piping to ground the metal parts of the water heater.

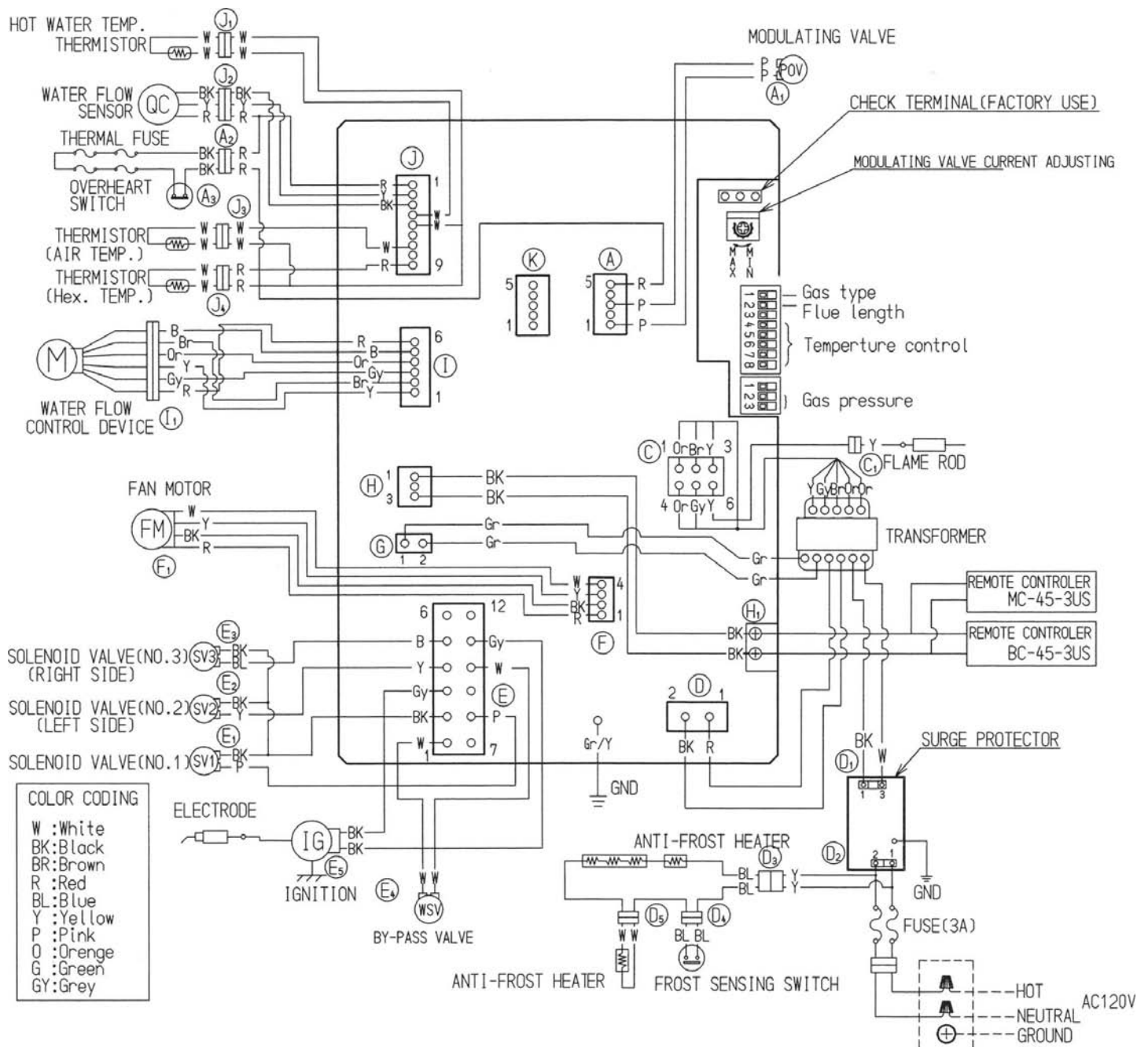
CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify correct operation after servicing.

- 1 The Continuum 2402 requires 120VAC/ 60 HZ. Power from a properly grounded circuit, GFI.
- 2 An on/off switch must be provided and installed for the incoming 120VAC power.
- 3 Wire the Continuum 2402 exactly as shown in the wiring diagram on the next page and on the inside of the cover panel. The blue wire is the hot leg wire; the brown wire is the neutral wire.
- 4 A green screw is provided in the junction box for the grounding connection.



Your disconnect switch should be a type that is suitable for outdoor use. Check National Electrical Codes for proper type switch to use in your area.

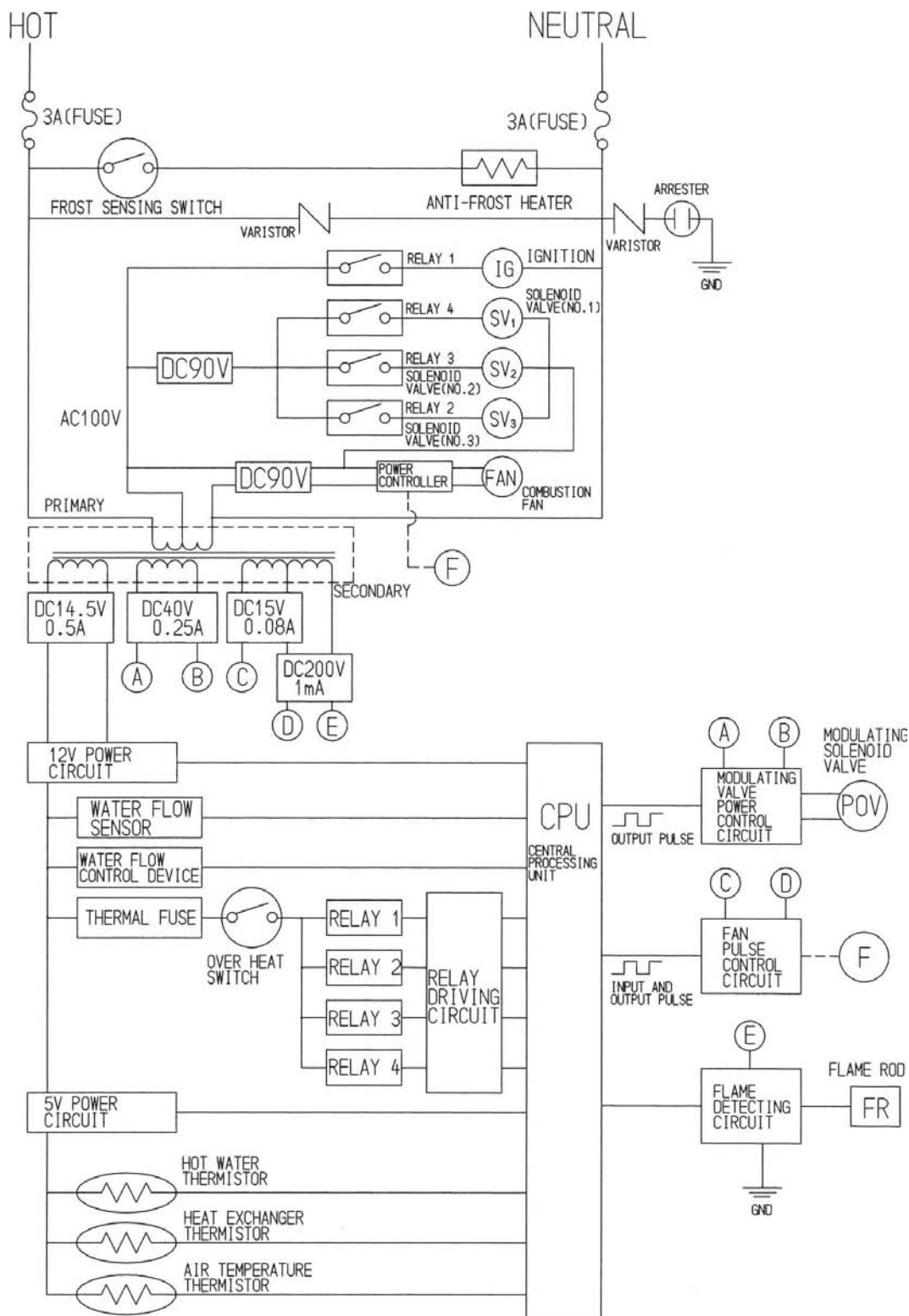
INSTALLER'S INSTALLATION INSTRUCTIONS Wiring Diagram





INSTALLER'S INSTALLATION INSTRUCTIONS

Wiring Diagram





INSTALLER'S INSTALLATION INSTRUCTIONS

Lighting the Unit

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- 1) This water heater does not have a pilot. It is equipped with a direct ignition device which automatically lights the burner. DO NOT TRY TO LIGHT THE BURNER BY HAND.
- 2) Before operating the Continuum 2402 smell all around the unit for gas. Be sure to smell near the ground as leaking gas may settle there.
- 3) Turn the manual gas control valve on.

STOP!! READ THE SAFETY ISSUES ON PAGES 8 & 9

- 4) Turn on any hot water tap. The Continuum 2402 should light and begin heating your water.

If the Continuum 2402 fails to light

- 1) DO NOT ATTEMPT TO LIGHT BY HAND.
- 2) Turn off the electrical power to the unit.
- 3) Turn off the manual gas control.
- 4) Wait 5 minutes, if you smell gas, go to a neighbor's house and call the gas company or the fire department. If you do not smell gas, go to the next step.
- 5) Turn the manual gas control valve on.
- 6) Turn the electrical power to the unit on.
- 7) Turn on any hot water tap.
- 8) If the unit still fails to light, turn off the electricity and gas to the unit and call Rinnai 1-800-621-9419.



INSTALLER'S INSTALLATION INSTRUCTIONS

Remote Controls- General

The remote controls for the Continuum 2402 allow the customer to control the functions of the water heater and to diagnose certain fault conditions.

The Main Controller model MC-45-3US is intended to be installed in the kitchen or laundry area where the majority of the hot water is being used.

NOTE: The MC-45-3US has a temperature setpoint range of 96-140°F. This is the only controller capable of temperature setpoints greater than 120°F.

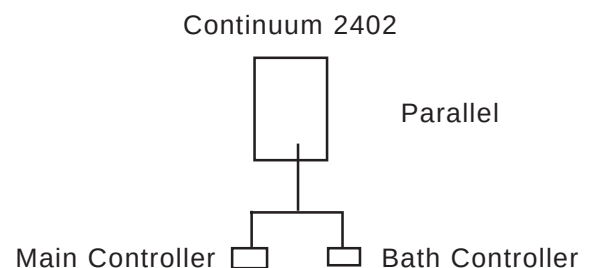
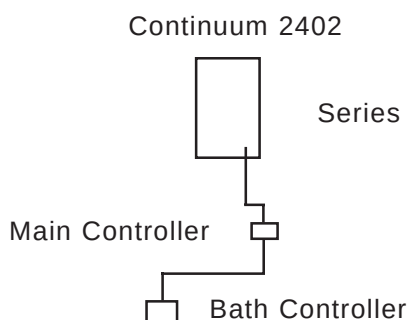
The Bath Controller model BC-45-3US and Secondary Bath Controller model BSC-45-3US are intended to be installed in a bath room close to a shower or tub. Both of these controllers have temperature setpoint ranges of 96-120°F.

NOTE: Only one of each type of controller can be connected to one Continuum 2402 water heater. (i.e. Installations with two MC-45-3US, two BC-45-3US, or two BSC-45-3US controllers will not function properly.)

Before installing the remote controls, determine the most convenient location(s). When deciding on the best location for the remote controls, please consider the following items:

- 1) Place the controllers out of reach of small children.
- 2) Avoid locations where the controller(s) will become hot. (over the stove, near the oven or a radiant heater.
- 3) Avoid direct sunlight. (The digital monitor can be difficult to read in direct sunlight)
- 4) Avoid areas where the remote can be splashed with cooking water, oil or sauce.
- 5) The remote control cables carry low voltage, 12VDC digital.

Every installation is different



The controls can be wired in series or in parallel depending on the distance from the Continuum 2402 to the controls.

INSTALLER'S INSTALLATION INSTRUCTIONS

Remote Controls - Installation

1) Determine a suitable location for the control.

2) Make three holes on the wall as shown.

3) Run the cable between the control and the Continuum 2402 or the control and the other control.

4) Remove the face plate from the remote control, using a screw driver.

5) Connect the cable to the remote control.

6) Mount the control to the wall using the holes drilled in step 2.

Note: If the cable cannot be run in the wall cavity, the plastic knockout should be removed from the top or bottom of the control to allow flush mounting with the wall

7) Disconnect the power from the Continuum 2402.

8) Remove the cover of the Continuum 2402.

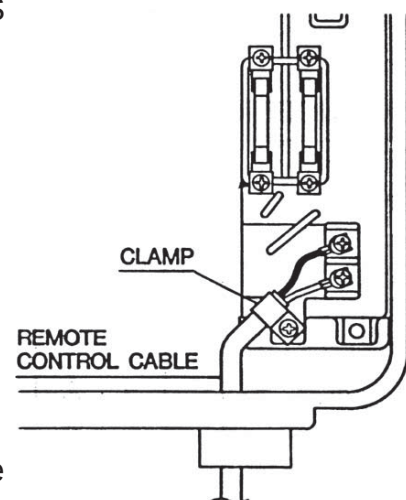
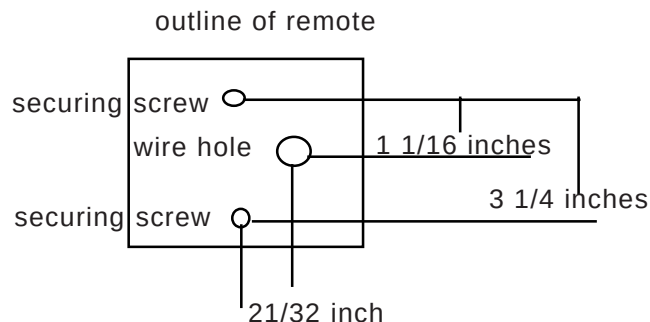
9) Remove the plastic cover from the PCB and electrical connections.

DO NOT ATTEMPT TO CONNECT THE REMOTE CONTROLS WITH THE POWER ON, THERE'S 120 VOLT POTENTIAL, NEXT TO THE REMOTE CONTROL CONNECTIONS INSIDE THE UNIT. All service and wiring should be performed by a certified installer.

10) Thread the cable through the access hole at the base of the unit and connect the wires to the control terminals on the right hand side bottom of the PCB.

11) Secure the control cable using the clamp provided.

12) Replace plastic cover over PCB and then replace the cover of the Continuum 2402.





INSTALLER'S INSTALLATION INSTRUCTIONS

Testing

- 1) Turn on the gas and water.
- 2) Check for water and gas leaks. Use soapy water to test for gas leaks.
- 3) Remove pressure test point screw, attach pressure gauge to test point.
- 4) Turn Power on.
- 5) Open any hot water tap fully.
- 6) Check test point or supply pressure in water columns per inch.

<u>Manifold Pressure:</u>		<u>Supply pressure:</u>		
Natural Gas	3.9" Hi. fire	0.31" Lo. fire	Natural Gas	Min. 7" Max. 10.5"
LPG	5.1" Hi. fire	0.43" Lo. fire	LPG	Min. 10" Max. 14"

NOTE: The pressure may be low due to too little flow, too high an incoming temperature, and/or undersized gas piping. Examine these areas before determining that the pressure needs to be adjusted. **Contact Rinnai before adjusting manifold pressures at 1-800-621-9419. Failure to contact Rinnai, could void unit's warranty.**

- 7) If it is determined that the gas pressure needs adjusting, first check the incoming pressure at the test point on the gas inlet. If it is correct follow the adjusting procedure contained in the pouch of the unit EXACTLY. If in doubt call Rinnai 1-800-621-9419.

The regulator is pre-set at the factory, it should not need resetting.

- 8) Turn the hot water off. Turn the power off. Remove the pressure gauge and replace the test point screw. Check for a gas leak around the test point screw.
- 9) Replace the front cover.
- 10) Turn the power back on.
- 11) Check the operation of the unit. Check the operation of each of the remote controls. Check the operation of the Power failure protection system.
- 12) Explain the proper operation of the Continuum 2402 to the customer.

INSTALLER'S INSTALLATION INSTRUCTIONS

Diagnostic Points

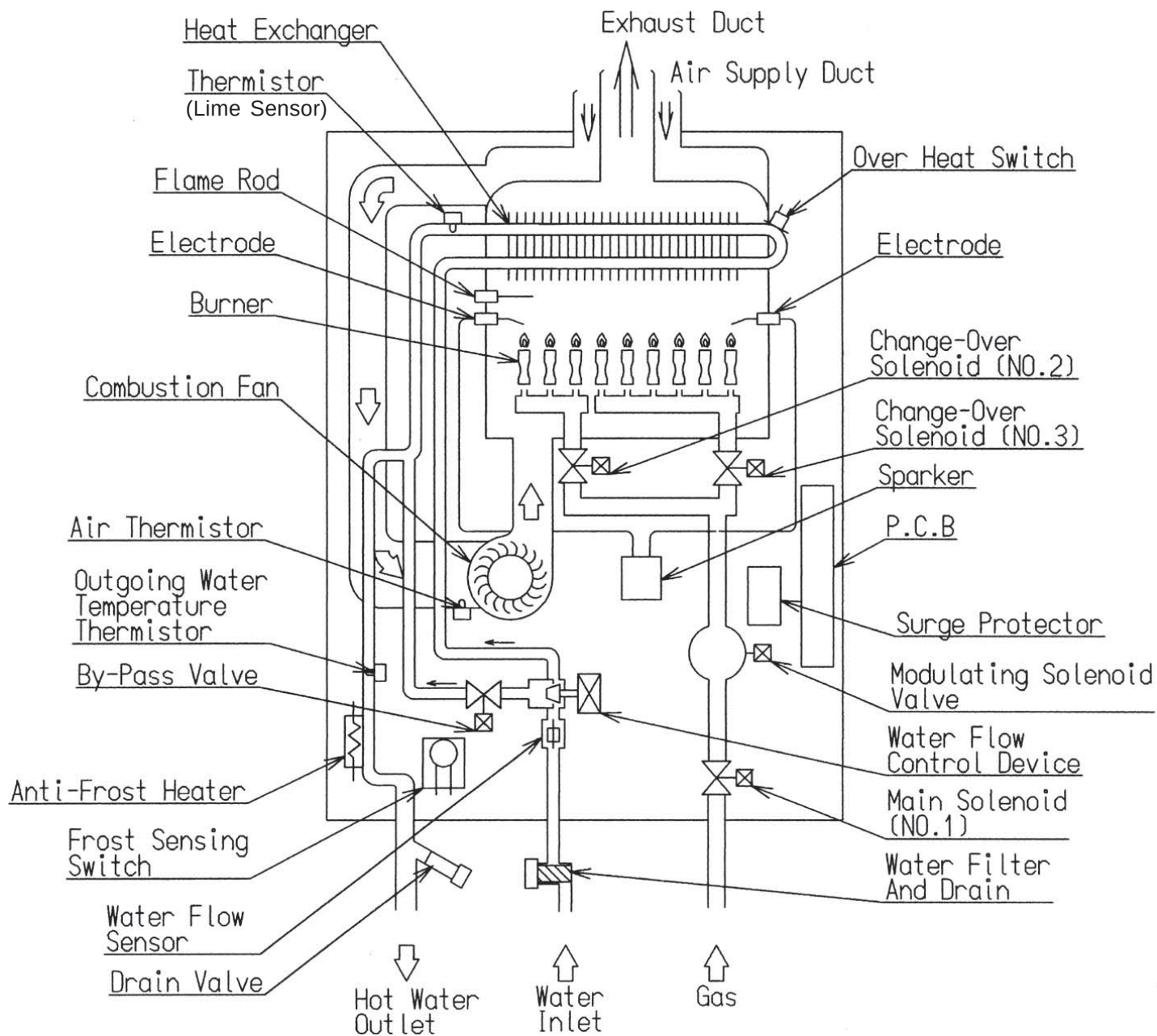
Flow Chart N°	Measurement Point		Normal Value	Component
	Con N°	Wire Color		
1	D ₁	Black - White	AC 108 - 132 V	Safety Device
2	H ₁	Black - Black	DC 10 - 13 V	Remote Control
3	J ₂	Red - Black	DC 11 - 13 V	Water Flow Sensor
		Yellow - Black	DC 2 - 10 V	
4	E ₄	White - White	DC 80 - 100 V 0.8 - 1.8 kΩ	By-Pass Solenoid Valve
5	F	Red - Black	DC 8 - 42 V	Combustion Fan
		Yellow - Black	DC 11 - 13 V	
		White - Black	40 - 180 Hz	
6	C ₁	Yellow - EARTH	AC 100 - 160 V (over DC 1μA)	Flame Rod
7	A ₁	Pink - Pink	DC 0.5 - 25 V 69 - 89 Ω	Modulating Valve
8	J ₁	White - White	15°C 11.4 - 14.0 KΩ 30°C 6.4 - 7.8 KΩ 45°C 3.6 - 4.5 KΩ 60°C 2.2 - 2.7 KΩ 105°C 0.6 - 0.8 KΩ	Thermistor
9	J ₄	Red - Red	15°C 11.4 - 14.0 KΩ 30°C 6.4 - 7.8 KΩ 45°C 3.6 - 4.5 KΩ 60°C 2.2 - 2.7 KΩ 105°C 0.6 - 0.8 KΩ	Thermistor
10	A ₂	Red - Red	Below 1Ω	Thermal Fuse
	A ₃	Black - Black	Below 1Ω	Overheat Switch
11	J ₃	White - White	15°C 11.4 - 14.0 KΩ 30°C 6.4 - 7.8 KΩ 45°C 3.6 - 4.5 KΩ	Air Thermistor
12	E ₅	Black - Black	AC 90 - 110 V	Spark Generator
13	E ₁	Pink - Black	DC 80 - 100 V 1.3 - 1.6 KΩ	Solenoid Valve 1
14	E ₂	Yellow - Black	DC 80 - 100 V 1.7 - 2.1 KΩ	Solenoid Valve 2
15	E ₃	Blue - Black	DC 80 - 100 V 1.7 - 2.1 KΩ	Solenoid Valve 3
16	I ₁	Red - Blue	DC 11-13 V	Water Flow Control (Geard Motor)
		Orange - Grey		

TRANSFORMER VOLTAGES AND RESISTANCES

Connector	Wire Color	Normal Value			
D	Red - Black	AC 90 - 110 V 19 - 23 Ω	C	Grey - Brown	AC 30 - 50 V 2 - 4 Ω
G	Green - Green	AC 12 - 16V 3.6 - 4.8 Ω	D ₁	Black - White	AC 108 - 132 V 20 - 24 Ω
C	Orange - Orange	AC 13 - 30V 0.5 - 0.7 Ω	C	Yellow - Brown	AC 180 - 220 V 0.23 - 0.3 KΩ

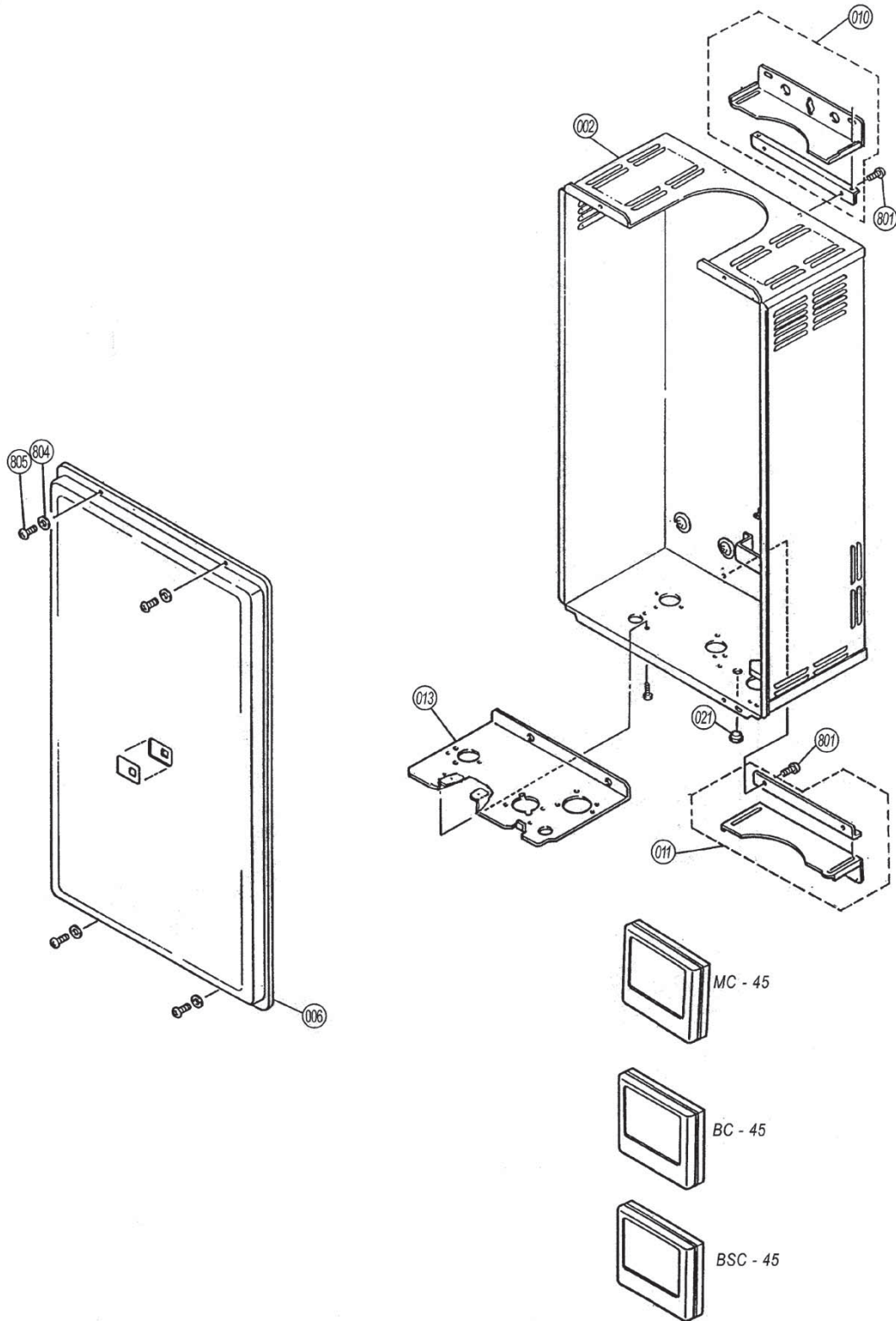
INSTALLER'S INSTALLATION INSTRUCTIONS

Schematic Diagram



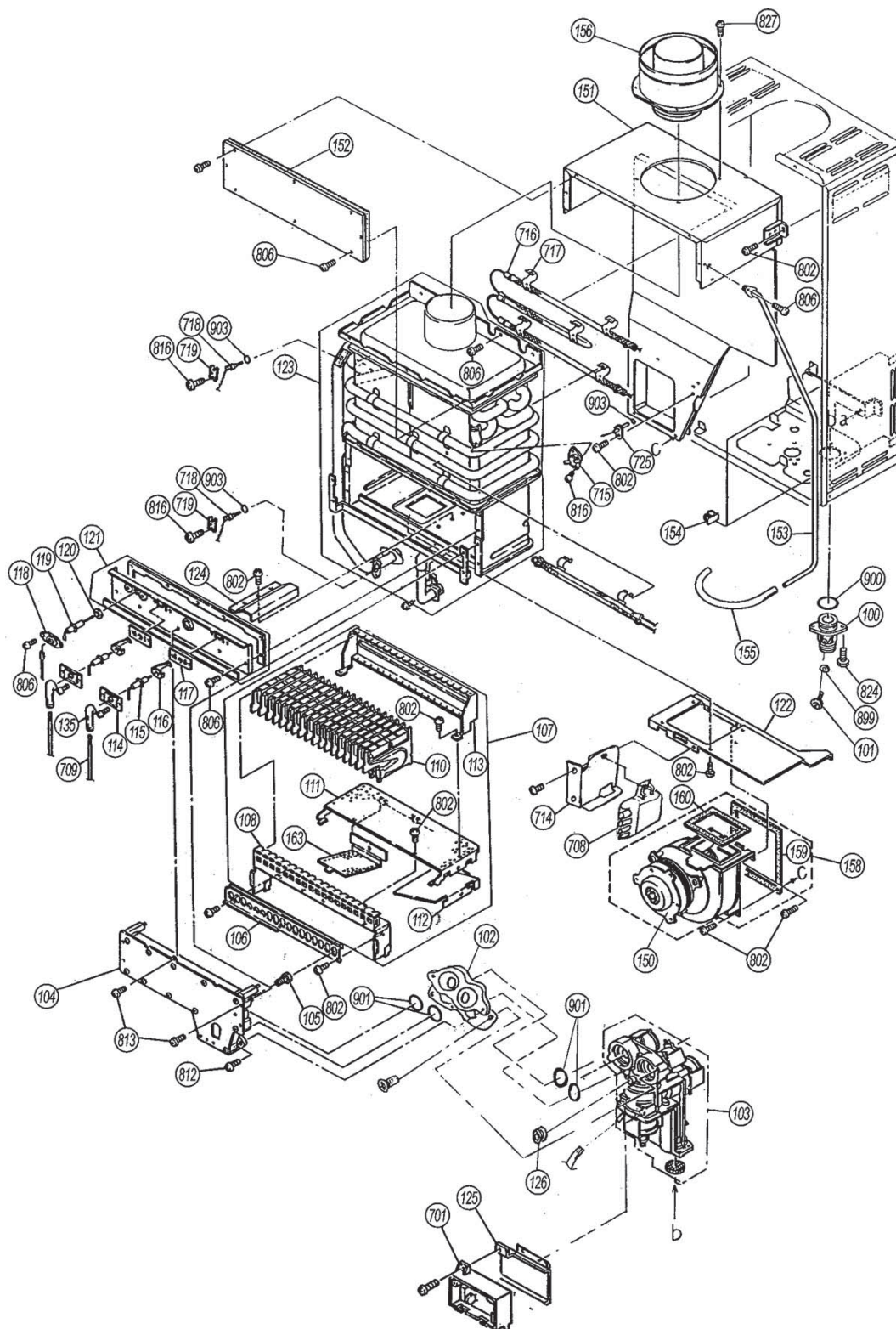
INSTALLER'S INSTALLATION INSTRUCTIONS

Exploded View - Cabinet



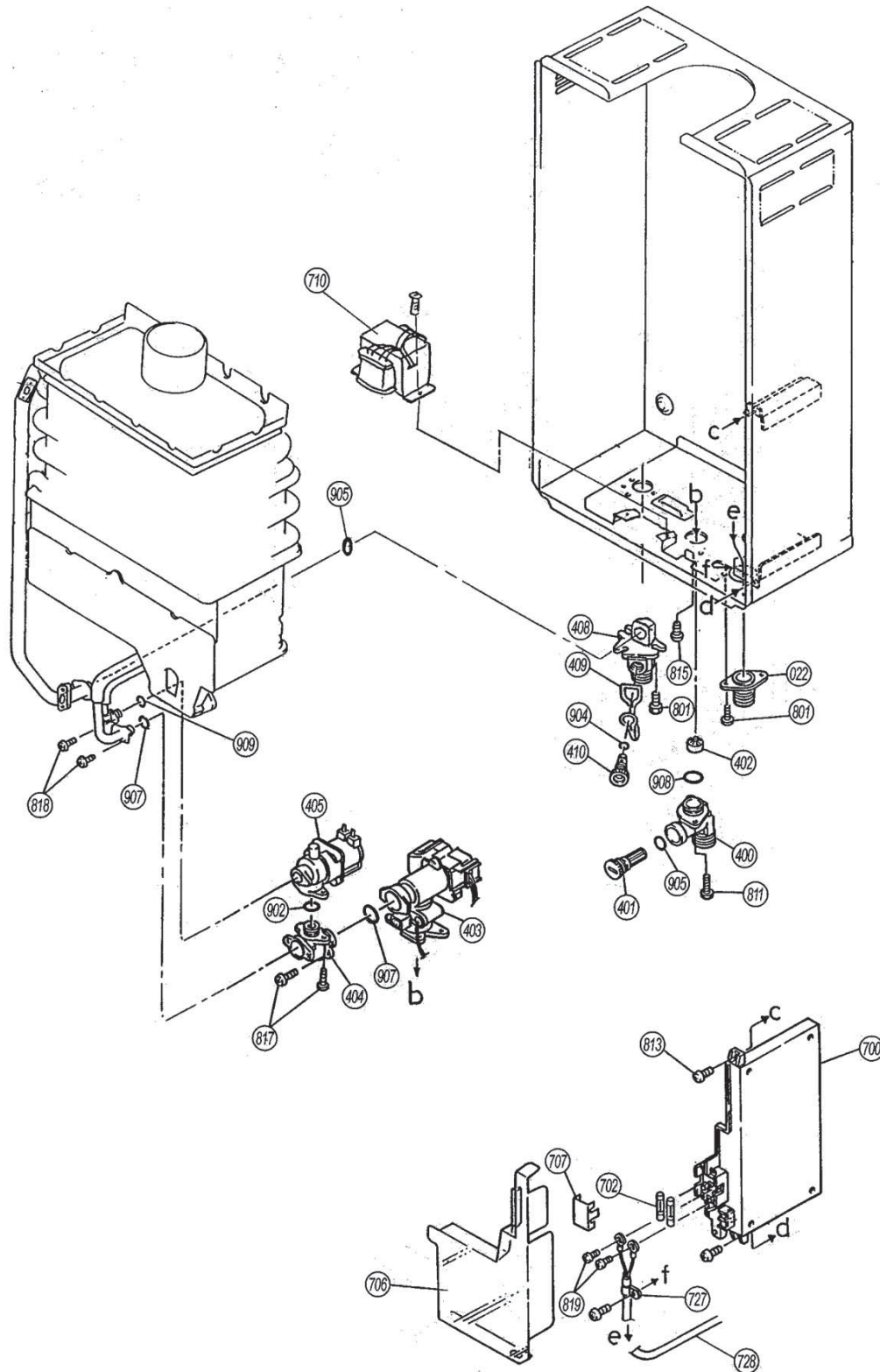


INSTALLER'S INSTALLATION INSTRUCTIONS



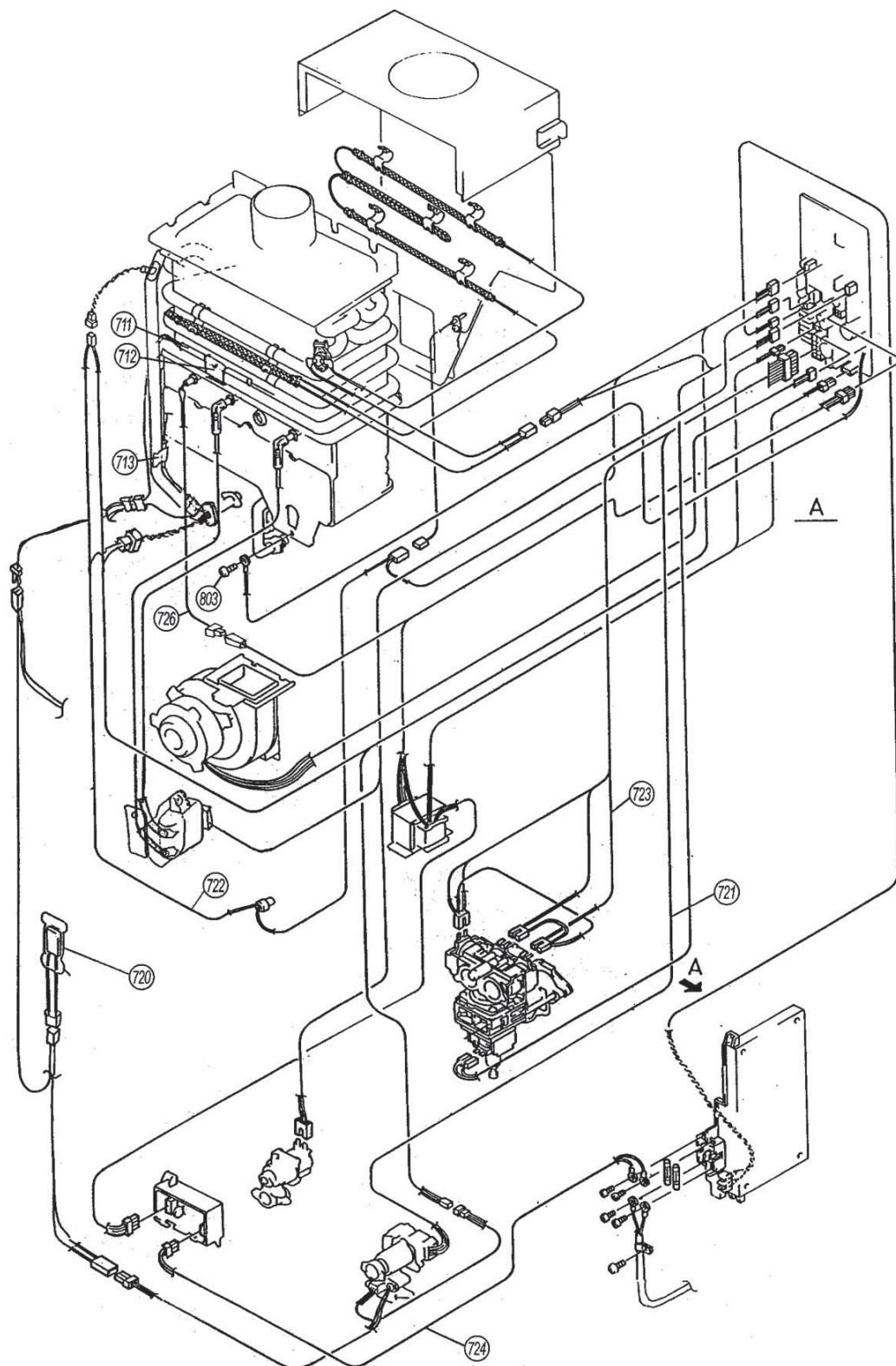
INSTALLER'S INSTALLATION INSTRUCTIONS

Exploded View - Internals





INSTALLER'S INSTALLATION INSTRUCTIONS
Exploded View - Electrical





INSTALLER'S INSTALLATION INSTRUCTIONS

Parts List

<u>Number</u>	<u>Description</u>	<u>Part Number</u>	<u>Quantity</u>
002	Casing Assembly	DU162-1860	1
006	Front Panel Assembly-9	DU162-111-9	1
010	Wall Fitting Bracket	BU183-115-3	1
011	Wall Fitting Bracket Bottom	BU162-107-2	1
013	Connection Reinforcement Panel	DU162-1863	1
021	Rubber Plug	AU105-113	1
022	Cable Connection	BU56-602-N	1
100	Gas Connection (3/4" NPT)B	CU195-211-2	1
101	Test Point Screw	C10D-5	1
102	Gas Control Connecting	CU162-1880	1
103	Gas Control Assembly	C36E-30-S	1
104	Manifold Assembly - A (LPG)	CU155-410-A	1
104	Manifold Assembly - B (Nat.G)	CU155-410-B	1
105	Main Injector	BU155-210	18
106	Damper A(NAT.G)	BU155-414-A	1
106	Damper B (LPG)	BU155-414-B	1
107	Burner Unit Assembly F .	CU162-210	1
108	Burner Case Front	CU155-222	1
110	Side Type Sleeve Burner Assembly	B3A1-4	18
111	Burner Case Bottom Panel	CU155-223-T	1
112	Slope Blate	BU155-228	1
113	Burner Case Back Panel	CU155-224	1
114	Electrode Holder	AH24-342	2
115	Electrode	AH24-344	2



INSTALLER'S INSTALLATION INSTRUCTIONS

Parts List

<u>Number</u>	<u>Description</u>	<u>Part Number</u>	<u>Quantity</u>
116	Ignition Target	AH24-341	2
117	Electrode Packing	AH24-346	2
118	Electrode Holder	AU129-319	1
119	Flame Rod	AH24-345	1
120	Electrode Packing	AH24-348	1
121	Combustion Chamber Front Plate	BU155-211	1
122	Combustion Chamber Bracket	CU162-203	1
123	Heat Exchanger Complete Assy	DU162-1879	1
124	Combustion Chamber Bottom Stand	BU155-227	1
125	Unit Bracket	BU162-1886	1
126	Screw	AU39-965	1
150	Blower Motor B	CU162-615-2	1
151	Air Inlet Box Assy B	CU162-810-2	1
152	Air Inlet Box Cover	BU162-815	1
153	Back Pressure Pipe	BU162-816	1
154	CK Cramp	ES-10037-1	3
155	Pressure Tube	AU161-665-a	1
156	Flue Connection Assy	BU162-820	1
158	Blower Motor Assy	CU162-610-2	1
159	Air Inlet Packing	BU162-617	1
160	Fan Connecting Packing	AU183-562	1
400	Water Inlet (3/4" NPT)	H73-501-2	1
401	Water Filter Assy	H73-511	1
402	Rectifier	M8D 1-11	1



INSTALLER'S INSTALLATION INSTRUCTIONS
Parts List

<u>Number</u>	<u>Description</u>	<u>Part Number</u>	<u>Quantity</u>
403	Water Flow Servo & Sensor	M8E-4-6	1
404	Joint	M6H4-2	1
405	Water Solenoid Valve	M6H-4	1
408	Hot Water Outlet (3/4"NPT)	U211-321-2	1
409	Plug Band B	AU142-445	1
410	Drain	AU 142-444	1
700	PCB	CU 162-1855	1
701	Surge Protector	BBF9-630	1
702	Glass Fuse	EP-103-33	2
706	PCB Cover	CU163-608	1
707	Fuse Cover	AU155-1560	1
708	Ignitor	EI-145	1
709	High Tension Cord	BH38-710-250	2
710	Transformer	ET-260	1
711	120V Anti-Frost Heater	BU195-1879	1
712	Anti-Frost Heater Clip	AU195-675	2
713	Anti-Frost Heater Clip A	AU111-653	2
714	Ignitor Bracket	BU162-1884	1
715	Over Heat Switch	BU129-824	1
716	Thermal Fuse Harness B	BU162-1795-2	1
717	Thermal Fuse Clips	CP-80531	7
718	Thermistor	BH45-650	2
719	Thermistor Clip	CP-90172	2
720	Frost Sensing Switch	BU189-530	1



INSTALLER'S INSTALLATION INSTRUCTIONS

Parts List

<u>Number</u>	<u>Description</u>	<u>Part Number</u>	<u>Quantity</u>
721	Water Flow Servo Harness	BU195-604	1
722	Sensor Harness	BU162-1889	1
723	Modulating Solenoid Valve Harness	BU162-1888	1
724	Power Harness	BU162-1887	1
725	Air Inlet thermistor	BH50-730	1
726	flame Rod Harness	AU195-605	1
727	Cramp	AU33-327-e	1
728	Power Supply Harness	AU162-1890	1
801	Screw	ZBA051OUK	-
802	Screw	ZEAB0408SZ	-
804	Washer	CF83-41430	-
805	Screw	ZAD0408UK	-
806	Screw	ZEAB0408UK	-
811	Screw	ZAG0512UK	-
812	Screw	C P-21478-412	-
813	Screw	ZEDB0408SZ	-
815	Screw	ZBA0408UK	-
816	Screw	ZEAB0406UK	-
817	Screw	ZHAA041OUK	-
818	Screw	ZAA0408UK	-
824	Screw	ZAG0514UK	-
899	"O" Ring (S4)	M10B-13-4	1
900	"O" Ring (P24)	M10B-1-24	1
901	Packing	C36F8-1	4



INSTALLER'S INSTALLATION INSTRUCTIONS
Parts List

<u>Number</u>	<u>Description</u>	<u>Part Number</u>	<u>Quantity</u>
902	"O" Ring	M10B-10-1015	1
903	"O" Ring (P4)	MIOB-2-4	?
904	"O" Ring (P7)	MIOB-2-7	1
905	"O" Ring (P16)	M10B-2-16	2
907	"O" Ring (P14)	M10B-2-14	2
908	"O" Ring (P18)	M10B-2-18	1
909	"O" Ring (P10)	M10B-2-10	2
	Manual 3/4" gas control valve	BU195-1865	1
	Kitchen remote control kit	MC-45-3US	1
	Bathroom Remote Control kit	BC-45-3US	1
	2nd Bathroom Remote Control kit	BSC-45-3US	1

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